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AN
     1995:795168 CAPLUS
DN
     123:189355
ΤI
     Ovulation control by regulating nitric oxide levels
     Garfield, Robert E.; Yallampalli, Chandrasekhar
IN
PA
     Board of Regents, University of Texas System, USA
SO
     PCT Int. Appl., 30 pp.
     CODEN: PIXXD2
DT
     Patent
LΑ
     English
IC
     ICM A61K031-195
     2-3 (Mammalian Hormones)
CC
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                      A1 19950627
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                                                           19950607
PRAI US 1993-165309
                            19931210
     WO 1994-US14133
                           19941208
AΒ
     Inhibition of ovulation in a female may be achieved by administering a
     nitric oxide synthase inhibitor, alone or in combination with one or more
     of a progestin, an estrogen, and an LH-RH antagonist, thereby preventing
   conception. The stimulation of ovulation in a female may be achieved by
     administering a nitric oxide source, optionally in further combination
     with one or more of clomiphene, a gonadotropin, and an LH-RH agonist.
     Thus, 27 days old immature rats were injected with 4 IU of pregnant mare's
     serum gonadotropin on day on. Two days later rats were injected with 40
     mg of NG-nitro-L-arginine Me ester at 12 AM and 3 PM and animals were
     sacrificed one day later and examd. for the ovulatory response by counting
     the no. of Graafian follicles 3 and corpora lutea 5 in the ovaries.
     no. of Graffian follicles and corpora lutea was 9.7 and 0.7 resp. as
     compared to 1.0 and 10.0 for the controls.
SΫ
     ovulation control nitric oxide synthase inhibition; conception prevention
    nitric oxide synthase inhibition
                                        _
ΙT
     Contraceptives
     Insemination, artificial
     Ovarian cycle
     Ovulation
     Pituitary gland
        (ovulation control by regulating nitric oxide levels)
IT
     Estrogens
    Gonadotropins
     Progestogens
    RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); BIOL (Biological study)
        (ovulation control by regulating nitric oxide levels)
ΙT
     Fertilization
        (extracorporeal, ovulation control by regulating nitric oxide levels)
IT
    Gonadotropins
    RL: BAC (Biological activity or effector, except adverse); BSU (Biological
    study, unclassified); BIOL (Biological study)
        (inhibitors, ovulation control by regulating nitric oxide levels)
IT
    9034-40-6, GnRH 103733-02-4
    RL: BAC (Biological activity or effector, except adverse); BSU (Biological
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study, unclassified); BIOL (Biological study) (antagonists; ovulation control by regulating nitric oxide levels) 50-28-2, 17.beta.-Estradiol, biological studies 50-50-0, Estradiol benzoate 55-63-0, Nitroglycerin 57-63-6, Ethinyl estradiol Progesterone, biological studies 68-23-5, Norethinodrel 74-79-3, L-Arginine, biological studies 87-33-2, Isosorbide dinitrate 434-22-0, 19-Nortestosterone 520-85-4, Medroxyprogesterone 911-45-5, Clomiphene 2149-70-4 6533-00-2, Norgestrel 9002-67-9, LH 9034-40-6D, Lh-rh, 14402-89-2, Sodium nitroprusside 16051-77-7, Isosorbide 17230-88-5, Danazol 20933-81-7 mononitrate 17035-90-4 34973-08-5, Gonadorelin acetate 35189-28-7, Norgestimate 50903-99-6 54024-22-5, Desogestrel 57444-72-1 60282-87-3, Gestodene 74381-53-6, Leuprolide acetate 76932-60-0, Nafarelin acetate 125978-95-2, Nitric oxide synthase 137361-05-8 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (ovulation control by regulating nitric oxide levels)

IT

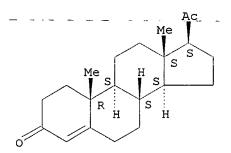
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L24 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2000 ACS
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     1995
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ΑN
     1995:753642 CAPLUS
DN
     123:152914
TI
     Treatment of climacteric disorders with nitric oxide synthase substrates
     and/or donors
    Yallampalli, Chandra; Garfield, Robert E.; Chwalisz, Kristof; Bukowski,
TN
     Radoslaw
PΑ
     Schering A.-G., Germany
SO
     PCT Int. Appl., 27 pp.
     CODEN: PIXXD2
DT
    Patent
LA
    English
    ICM A61K031-04
ICS A61K031-195
IC
     63-6 (Pharmaceuticals)
     Section cross-reference(s): 1, 2
FAN.CNT 4
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PRAI US 1993-153345
                      19931116
     US 1993-92426
                      19930716
    WO 1994-EP3818
                      19941117
AB
     The symptoms of the climacteric disorders are ameliorated by the
     administration to an afflicted individual 1 or both of a nitric oxide
    substrate and/or nitric oxide donor, alone or optionally in combination with a progestin or, in the case of non-pregnant female, either a
     progestin or an estrogen or both. To a nonpregnant female displaying the
     signs of menopausal or postmenopausal symptoms, including amenorrhea, hot
     flushes, etc., L-arginine (0.5-20 q-oral) is
     administered daily in 2 equally divided doses until the symptoms are
     improved. After the above treatment, 0.5-5 g L-arginine
     is administered daily.
ST
     climacteric disorder nitric oxide synthase donor; estrogen menopause
     nitric oxide synthase donor; hormone therapy nitric oxide synthase donor
IT
    Menopause
        (treatment of climacteric disorders with nitric oxide synthase
        substrates and/or donors)
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TΨ Estrogens RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (treatment of climacteric disorders with nitric oxide synthase substrates and/or donors) 10102-43-9, Nitric oxide, biological studies IT RL: BSU (Biological study, unclassified); BIOL (Biological study) (donors; treatment of climacteric disorders with nitric oxide synthase substrates and/or donors) IT 125978-95-2, Nitric oxide synthase RL: BSU (Biological study, unclassified); BIOL (Biological study) (substrates; treatment of climacteric disorders with nitric oxide synthase substrates and/or donors) IT 50-27-1, Estriol 50-28-2, 17.beta.-Estradiol, biological studies 53-16-7, Estrone, biological studies 55-63-0, Nitroglycerin 57-83-0, Progestin, biological studies 68-22-4, Norethisterone 74-79-3, L-Arginine, biological studies initrate 152-62-5, Dydrogesterone 797-63-7, Levonorgestrel **979-32-8**, 87-33-2, Isosorbide dinitrate 520-85-4, Medroxyprogesterone Estradiol valerate 6533-00-2, Norgestrel 14402-89-2, 16051-77-7, Isosorbide mononitrate Sodium nitroprusside 33876-97-0, SIN-1 54024-22-5, Desogestrel 54048-10-1, 3-KetoDesogestrel 60282-87-3, Gestodene RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (treatment of climacteric disorders with nitric oxide synthase substrates and/or donors) 57-83-0, Progestin, biological studies 74-79-3, L-Arginine, biological studies 979-32-8, Estradiol valerate RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (treatment of climacteric disorders with nitric oxide synthase substrates and/or donors) RN 57-83-0 CAPLUS CN Pregn-4-ene-3,20-dione (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 74-79-3 CAPLUS

CN L-Arginine (9CI) (CA INDEX NAME)

RN 979-32-8 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)-, 17-pentanoate (9CI) (CA INDEX NAME)

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L24 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2000 ACS
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AN
    1997:89052 CAPLUS
DN
    126:139891
    Treatment of climacteric disorders with nitric oxide synthase substrates
    and/or donors
    Garfield, Robert E.; Chwalisz, Krzysztof; Bukowski, Radoslaw; Yallampalli,
ΙN
    Chandra
PΑ
    Schering A.-G., Germany
    U.S., 8 pp. Cont.-in-part of U.S. Ser. No. 92,426, abandoned.
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                     19941117
    US 1995-466689
                     19950606
    The symptoms of the climacterium are ameliorated by the administration to
ΔR
     an afflicted individual with one or both of a nitric oxide substrate
     and/or nitric acid donor, alone or optionally in combination with a
     progestin or, in the case of a non-pregnant female, either a progestin or
     an estrogen or both.
    climacterium nitric oxide synthase substrate hormone
ST
IΤ
    Menopause
        (climacteric disorders treatment with nitric oxide synthase substrates
        and/or donors and hormones)
IT
    Estrogens
     Progestins
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (climacteric disorders treatment with nitric oxide synthase substrates
        and/or donors and hormones)
     125978-95-2, Nitric oxide synthase
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     RL: BAC (Biological activity or effector, except adverse); BIOL
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        and/or donors and hormones)
     7697-37-2, Nitric acid, biological studies
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     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (climacteric disorders treatment with nitric oxide synthase substrates
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     50-27-1, Estriol
     53-16-7, Estrone, biological studies 55-63-0, Nitroglycerin
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     Norethisterone 74-79-3, L-Arginine,
     biological studies
                         87-33-2, Isosorbide dinitrate
    Dydrogesterone
                     520-85-4, Medroxyprogesterone 797-63-7, Levonorgestrel
     979-32-8, Estradiol valerate
                                    6533-00-2,
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        (climacteric disorders treatment with nitric oxide synthase substrates
        and/or donors and hormones)
IΤ
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     L-Arginine, biological studies 979-32-8,
     Estradiol valerate
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (climacteric disorders treatment with nitric oxide synthase substrates
        and/or donors and hormones)
RN
     57-83-0 CAPLUS
     Pregn-4-ene-3,20-dione (9CI) (CA INDEX NAME)
```

RN 74-79-3 CAPLUS

CN L-Arginine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 979-32-8 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)-, 17-pentanoate (9CI) (CA INDEX NAME)

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ANSWER 2 OF 5 CAPLUS COPYRIGHT 2000 ACS
    1999
    1997
    1999
    1997:640549 CAPLUS
ΝA
DN
    127:288184
    Treatment of osteoporosis and metabolic bone disorders with nitric oxide
ΤI
    substrate and/or donors
IN
    Yallampalli, Chandrasekhar; Wilamawansa, Sunil J.
    Board of Regents, the University of Texas System, USA; Yallampalli,
PΑ
    Chandrasekhar; Wilamawansa, Sunil J.
SO
    PCT Int. Appl., 53 pp.
    CODEN: PIXXD2
DT
    Patent
LΑ
    English
IC
    ICM A61K031-66
    ICS A61K031-595; A61K031-445
CC
    1-10 (Pharmacology)
    Section cross-reference(s): 2
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                                     WO 1997-US4311 19970318
    WO 9734609
                A1 19970925
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    US 5898038
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EP 1997-918484
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PRAI US 1996-616470 . 19960319 - - - - - - - - -
    WO 1997-US4311
                    19970318
    Primary and secondary osteoporosis in a female or a male mammal in any age
AB
     treated by administering thereto a nitric oxide synthase substrate, a
    nitric oxide donor or both, optionally; in further combination with one or
    more of an estrogen, a progestin, a bisphosphonate, an anabolic steroid,
    testosterone, a flavinoid, vitamin D analog or a calcitonin. Nitric oxide
     substrate or donor also can be combined with one or more of the other
    medication acting on bone, such as bisphosphonate, calcitonin, fluoride,
    androgen, vitamin D analog, and other novel therapeutic agents. Either
    nitric oxide donor or substrate by itself or in combination with other
    medications as described above can be used in both males and females, for
    prevention and treatment of osteopenia or osteoporosis, and other
    metabolic bone disorders.
    osteoporosis nitric oxide substrate; bone disorder nitric oxide donor
ST
ΙT
    Bone diseases
    Oral drug delivery systems
    Osteoporosis
    Parenteral solutions (drug delivery systems)
    Sprays (drug delivery systems)
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(treatment of osteoporosis and metabolic bone disorders with nitric oxide substrate and/or donors) Anabolic steroids Androgens Antiestrogens Bone morphogenetic proteins Estrogens Flavonoids Growth factors (animal) Progestins Transforming growth factors .beta. RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (treatment of osteoporosis and metabolic bone disorders with nitric oxide substrate and/or donors) ፐጥ 125978-95-2, Nitric oxide synthase RL: BSU (Biological study, unclassified); BIOL (Biological study) (inhibitors; treatment of osteoporosis and metabolic bone disorders with nitric oxide substrate and/or donors) 74-79-3, L-Arginine, biological studies IT RL: BPR (Biological process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (treatment of osteoporosis and metabolic bone disorders with nitric oxide substrate and/or donors) 10102-43-9, Nitric oxide, biological studies ΙT RL: BSU (Biological study, unclassified); BIOL (Biological study) (treatment of osteoporosis and metabolic bone disorders with nitric oxide substrate and/or donors) 50-27-1, Estriol 50-28-2, 17.beta.-Estradiol, biological studies IT 53-16-7, Estrone, biological studies 55-63-0, Nitroglycerin 57-83-0, Progesterone, biological studies 58-22-0, Testosterone 68-22-4, Norethisterone 87-33-2, Isosorbide dinitrate 152-62-5, 360-70-3, Nandrolone decanoate Dydrogesterone 520-85-4, 797-63-7, Levonorgestrel **979-32-8**, Medroxyprogesterone 1406-16-2D, Vitamin D, metabolites Estradiol valerate 6533-00-2, Norgestrel 7414-83-7, Disodium etidronate 7440-70-2D, 7681-49-4, Sodium fluoride, biological studies Calcium, compds. 13598-36-2D, Phosphonic acid, 9007-12-9, Calcitonin 10596-23-3 alkylidenebis-, derivs. 14402-89-2, Sodium nitroprusside 16051-77-7, Isosorbide mononitrate 16984-48-8, Fluoride, biological studies 33876-97-0, SIN-1 40391-99-9 61912-98-9, Insulin-like growth factor 66376-36-1, Alendronate 105462-24-6, Residronate - 106602-62-4, Amylin 114084-78-5, Ibandronate RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (treatment of osteoporosis and metabolic bone disorders with nitric oxide substrate and/or donors) IT 74-79-3, L-Arginine, biological studies RL: BPR (Biological process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (treatment of osteoporosis and metabolic bone disorders with nitric oxide substrate and/or donors) 74-79-3 CAPLUS RN L-Arginine (9CI) (CA INDEX NAME) CN

IT 57-83-0, Progesterone, biological studies 979-32-8,

## Estradiol valerate

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (treatment of osteoporosis and metabolic bone disorders with nitric oxide substrate and/or donors)

RN 57-83-0 CAPLUS

CN Pregn-4-ene-3,20-dione (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 979-32-8 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)-, 17-pentanoate (9CI) (CA INDEX NAME)

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ANSWER 1 OF 5 CAPLUS COPYRIGHT 2000 ACS
    1997
    1999
    1999
    1999
     1999
ΑN
    1997:745947 CAPLUS
DN
    128:19047
     Improvement of implantation rates after in vitro fertilization by
TI
     administering a nitric oxide substrate and/or donor
IN
     Chwalsz, Krzysztof; Garfield, Robert E.
    Schering Aktiengesellschaft, Germany
PA
SO
     PCT Int. Appl., 38 pp.
    CODEN: PIXXD2
DT
    Patent
LΑ
    English
    ICM A61K031-565
IC
     ICS A61K031-57; A61K031-22; A61K031-195; A61K031-34; A61K031-44
CC
     2-3 (Mammalian Hormones)
    Section cross-reference(s): 63
FAN.CNT 1
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                    KIND DATE
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                                     WO 1997-EP2371 19970507
    WO 9741866 A1
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                           19990602 - - CN 1997-194452 19970507 -
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                     Α
                           19990803
                                          BR 1997-8980
                                                           19970507
                                         NO 1998-5204
    NO 9805204
                     Α
                           19990106
                                                           19981106
                     1,9960507
PRAI US 1996-646518
    WO 1997-EP2371
                     19970507
AΒ
    A method is provided for the improvement of implantation rates and/or
    pregnancy rates in a female mammal, comprising administering to a female
    mammal in whom pregnancy is desired an effective amt. of: (a) a nitric
     oxide synthase substrate, a nitric oxide donor, or both, optionally in
     combination with, (b) a progestin, and, (c) optionally, in further
     combination with an estrogen. A method is also provided for fertility
     control for a female mammal, comprising administering to a female mammal
     in whom pregnancy is not desired and at risk of becoming pregnant an
     effective amt. of nitric oxide synthase inhibitor in combination with an
     antiprogestin. Pharmaceutical compns. are also provided.
ST
     implantation in vitro fertilization nitric oxide; contraceptive nitric
    oxide synthase inhibitor antiprogestin
IT
    Female fertility
     Fertility disorders
        (female fertility disorders; improvement of implantation rates after in
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vitro fertilization by administering a nitric oxide substrate and/or
        donor)
ΙT
     Contraceptives
        (fertility control using a nitric oxide synthase inhibitor in
        combination with an antiprogestin)
     Antiprogestins
IT
     RL: BAC (Biological activity or effector, except adverse); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (fertility control using a nitric oxide synthase inhibitor in
        combination with an antiprogestin)
ΙT
     Embryo (animal)
     In vitro fertilization (animal)
        (improvement of implantation rates after in vitro fertilization by
        administering a nitric oxide substrate and/or donor)
IT
     Estrogens
     Progestins
     RL: BAC (Biological activity or effector, except adverse); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (improvement of implantation rates after in vitro fertilization by
        administering a nitric oxide substrate and/or donor and optionally a
        progestin and estrogen)
TΤ
    Abortion (spontaneous)
        (prevention of early pregnancy loss by administering a nitric oxide
        substrate and/or donor)
ΙT
     Pregnancy
        (rate; improvement of implantation rates after in vitro fertilization
        by administering a nitric oxide substrate and/or donor)
     79-17-4, Aminoguanidine 504-29-0, 2-Aminopyridine
IT
                                                           1121-58-0,
     4-Methylaminopyridine 5407-87-4, 4,6-Dimethyl-2-aminopyridine
     17035-90-4
                 36889-13-1 52450-18-7, AMT
                                                53774-63-3
                                                              80471-63-2,
                                          118968-41-5, ORG 31710
    Epostane
               84371-65-3, Mifepristone
     126784-99-4, CDB2914 155768-17-5, ORG 33628
                                                     198907-45-8, ZK 137316
     199396-76-4, J 867
     RL: BAC (Biological activity or effector, except adverse); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (fertility control using a nitric oxide synthase inhibitor in
        combination with an antiprogestin)
IT
     55-63-0, Nitroglycerin 74-79-3, L-Arginine,
     biological studies
                         87-33-2, Isosorbide dinitrate
                                                          10102-43-9D, Nitric
    oxide, substrates and donors
                                  14402-89-2, Sodium nitroprusside
 -- 16051-77-7, Isosorbide mononitrate 33876-97-0, SIN-1
                                                              125978-95-2D,
    Nitric oxide synthase, substrates and inhibitors
     RL: BAC (Biological activity or effector, except adverse); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (improvement of implantation rates after in vitro fertilization by
        administering a nitric oxide substrate and/or donor)
ΙT
     50-28-2, Estradiol, biological studies 57-83-0, Progesterone,
    biological studies
                         630-56-8, Hydroxyprogesterone caproate
    979-32-8, Estradiol valerate
                                  96346-61-1,
    Onapristone
    RL: BAC (Biological activity or effector, except adverse); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (improvement of implantation rates after in vitro fertilization by
        administering a nitric oxide substrate and/or donor and optionally a
        progestin and estrogen)
     74-79-3, L-Arginine, biological studies
     RL: BAC (Biological activity or effector, except adverse); THU
     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (improvement of implantation rates after in vitro fertilization by
        administering a nitric oxide substrate and/or donor)
```

RN 74-79-3 CAPLUS

CN L-Arginine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 57-83-0, Progesterone, biological studies 979-32-8,

Estradiol valerate

RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (improvement of implantation rates after in vitro fertilization by administering a nitric oxide substrate and/or donor and optionally a progestin and estrogen)

RN 57-83-0 CAPLUS

CN Pregn-4-ene-3,20-dione (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 979-32-8 CAPLUS

CN Estra-1,3,5(10)-triene-3,17-diol (17.beta.)-, 17-pentanoate (9CI) (CA INDEX NAME)

AN 1984:530975 CAPLUS DN 101:130975

TI Steroid derivatives

IN Teutsch, Jean G.; Costerousse, Germain; Philibert, Daniel; Deraedt, Roger

PA Roussel-UCLAF, Fr.

SO U.S., 33 pp. Cont.-in-part of U.S. 4,386,085.

CODEN: USXXAM

DT Patent

LA English

IC A01N045-00; A61K031-56

NCL 424238000

CC 32-5 (Steroids)

Section cross-reference(s): 1, 2

FAN.CNT 6

ran.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4447424	Α	19840508	US 1982-386967	19820610
	FR 2497807	A1	19820716	FR 1981-272	19810109
	FR 2497807	B1	19830729	•	
	US 4386085	A	19830531	US 1982-338077	19820108
	US 4519946	Α	19850528	US 1984-614440	19840525
	US 4634695	A	19870106	US 1985-693682	19850122
	US 4978657	A	19901218	US 1985-810316	19851217
	US 5043332	Α	19910827	US 1989-421526	19891013
PRAI	FR 1981-272		19810109		
	US 1982-338077		19820108		
	US 1982-386967		19820610		
	FR 1982-10205		19820611		
	FR 1982-70205		19820611		
	US 1983-501373		19830606		
	US 1984-595267		19840330		
	US 1984-614440		19840525		
	US 1985-693682		19850122		
	US 1985-760703		19850730	•	
	US 1985-810316		19851217	•	
GI					

II

I

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Antiglucocorticoid and contraceptive norsteroids I [RR1 = 0,
     ketal, HON:, CH2:; R = HO, alkoxy, acyloxy, R1 = H; R2R3 = O, bond; R4 =
     N-, P- or Si-contg. radical, i.e. pyridyl, dimethylaminoalkyl,
      4-(Me2NCH2CH2O)C6H4, pyrrolidinophenyl, etc.; R5 = C1-C8 alkyl; R6, R7 =
     H, HO, alkoxy, acyloxy, HOCH2CO, HO2CCO, alkylcarbamoyl, etc.; R8, R9 =
     HO, H, alkyl aralkyl; n = 1, 2; optional 16-unsatd.] were prepd. by ring
     cleavage of epoxyestrene derivs. by Grignard reagents. Thus, treatment of
     epoxypropynylestrene II with 4-(Me2N)C6H4MgBr in THF contg. CuBr-Me2S
     complex and subsequent acid hydrolysis gave (aminophenyl)propynylestradien
     e III. At 10 mg/kg/day for 3 days in female rats III inhibited
     implantation 100g, whereas at 500 .mu.g/animal in the rabbit III was
     devoid of progestomimetic activity.
      aminophenylestradienone prepn contraceptive; estradienone
 ST
      aminophenyl prepn contraceptive; epoxyestrenol ring cleavage
     Grignard reagent; antiglucocorticoide estradienone
IT
     Abortion
         (by nitrogen-contg. radical substituted estradienones)
ΙT
     Androgens
     Progestogens
     RL: USES (Uses)
         (inhibitors, nitrogen-contg. radical substituted estradienones)
 IT . Contraceptives
         (nitrogen-contg. radical substituted estradienones)
ΙT
      19-Norsteroids
     RL: SPN (Synthetic preparation); PREP (Preparation)
         (prepn. of, of nitrogen-contg. radical substituted estradienones)
IT
     106-95-6, reactions 109-54-6
                                      586-77-6 626-61-9 1066-54-2
                  2474-07-9
                              6274-57-3
                                          6999-03-7
                                                      16518-62-0
     RL: RCT (Reactant); RACT (Reactant or reagent)
         (Grignard ring cleavage reaction of, with epoxyestrenol deriv.)
ΙT
     91935-18-1
     RL: RCT (Reactant); RACT (Reactant or reagent)
         (Grignard ring cleavage reaction of, with epoxyetrenol deriv.)
TΤ
                463-49-0
                          536-74-3
                                      591-51-5
     RL: RCT (Reactant); RACT (Reactant or reagent)
         (addn. reaction of, with (aminophenyl) estrenone deriv.)
ΙT
     74-99-7
     RL: RCT (Reactant); RACT (Reactant or reagent)
         (addn. reaction of, with estradienone deriv.)
IT
     5571-36-8
     RL: RCT (Reactant); RACT (Reactant or reagent)
         (addn. reaction of, with propyne)
     100-61-8, reactions
IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
         (alkylation of, by isoamyl bromide)
IT
     91-66-7
     RL: RCT (Reactant); RACT (Reactant or reagent)
         (bromination of)
ΙT
     79-01-6, reactions
     RL: RCT (Reactant); RACT (Reactant or reagent)
         (dechlorination and addn. reaction with (aminophenyl)estrenone deriv.)
IT
     91934-73-5
     RL: RCT (Reactant); RACT (Reactant or reagent)
         (epimerization of)
ΙT
     33403-21-3
     RL: RCT (Reactant); RACT (Reactant or reagent)
         (epoxide ring cleavage of, with aminophenylmagnesium bromide deriv.)
·IT
     90944-65-3P
                   91935-10-3P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
      (Reactant or reagent)
         (prepn. and Grignard ring cleavage reaction of, with epoxyestrenol
        deriv.)
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IT
     91934-77-9P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and addn. reaction of, with phenyllithium)
IT
                   91934-81-5P
                                  91934-84-8P
     84371-65-3P
                                                91934-85-9P
     91934-86-0P
                    91934-89-3P
                                  91935-00-1P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. and antiglucocorticoid and contraceptive activities
        of)
IT
     91934-93-9P
                    91934-98-4P
                                  91984-11-1P
                                                92009-03-5P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. and antiglucocorticoid and contraceptive activity of)
     91935-09-0P
IT
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and bromination of)
IT
     39931-87-8P
                   91934-74-6P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and epoxide ring cleavage of, by Grignard reagents)
IT
     84371-57-3P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and epoxide ring cleavage reactions of, with Grignard reagents)
IT
     84371-69-7P
                   92009-02-4P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and epoxidn. of)
IΤ
     91935-04-5P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and hydrogenation of)
IT
     84371-60-8P
                   84371-62-0P
                                  84371-64-2P
                                                89359-46-6P
                                                               91934-71-3P
     91934-75-7P
                   91934-78-0P
                                  91934-80-4P
                                                91934-83-7P
                                                               91934-88-2P
     91934-90-6P
                                  91934-95-1P
                   91934-91-7P
                                                91934-96-2P
                                                               91934-99-5P
     91935-01-2P
                   91935-03-4P
                                  91935-05-6P
                                                91935-07-8P
                                                               91935-11-4P
     91935-13-6P
                   91935-15-8P
                                  91935-19-2P
                                                93790-79-5P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (prepn. and hydrolysis of)
IT 91934-94-0P
    RL: -RCT- (Reactant); SPN- (Synthetic preparation); PREP- (Preparation); RACT
     (Reactant or reagent)
        (prepn. and reaction of, with lithium acetylide complex)
IT
     84371-58-4P
                   84371-59-5P
                                  84371-61-9P
                                                84371-63-1P
                                                               84371-67-5P
     84395-11-9P
                   89328-06-3P
                                  91934-72-4P
                                                91934-76-8P
                                                               91934-79-1P
                   91934-87-1P
     91934-82-6P
                                  91934-92-8P
                                                91934-97-3P
                                                               91935-02-3P
                   91935-08-9P
     91935-06-7P
                                  91935-12-5P
                                                91935-14-7P
                                                               91935-16-9P
     91935-17-0P
                                                91935-22-7P
                   91935-20-5P
                                  91935-21-6P
                                                               91935-23-8P
     91935-24-9P
                   91935-25-0P
                                  91935-26-1P
                                                91935-27-2P
                                                               91935-28-3P
     91935-29-4P
                   91935-30-7P
                                  91935-31-8P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of)
IT
     39990-99-3
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reaction of, with cyanoestrenol deriv.)
ΙT
     4584-46-7
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (substitution reaction of, with bromothiophenol)
ΙT
     106-53-6
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (substitution reaction of, with dimethylaminoethyl chloride)
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IT 107-82-4

RL: RCT (Reactant); RACT (Reactant or reagent) (substitution reaction of, with methylaniline)

=>

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AN
     1994:289794 CAPLUS
DN
     120:289794
ΤI
     Effects of nitric oxide-related agents on rat testicular function
ΑU
     Adams, Michael L.; Meyer, Edward R.; Sewing, Bryan N.; Cicero, Theodore J.
CS
     Sch. Med., Washington Univ., St. Louis, MO, USA
     Journal of Pharmacology and Experimental Therapeutics (1994), 269(1),
SO
     CODEN: JPETAB; ISSN: 0022-3565
DT
     Journal
LA
     English
CC
     1-8 (Pharmacology)
     Section cross-reference(s): 2
AΒ
     The effects of nitric oxide (NO)-related agents on testicular function
     were examd. in male rats with measurements of serum LH, serum
     testosterone, testicular interstitial fluid (TIF) testosterone, and TIF
     vols. Serum and TIF testosterone levels and LH secretion were
     significantly decreased by the NO donor, isosorbide dinitrate (ISDN), and
     the NO synthase (NOS) substrate, L-arginine Me ester, a source for the
     endogenous prodn. of NO. The effects of ISDN on TIF vols. were
     inconsistent, but L-arginine Me ester decreased TIF formation in a
     dose-dependent manner. In addn., ISDN dose-dependently suppressed
     testosterone secretion stimulated by human chorionic gonadotropin
     treatment, suggesting that the effects on testosterone secretion were
     independent of changes in secretion of the endogenous gonadotropin LH.
     ISDN, L-arginine Me ester, and the endogenous NOS substrate L-arginine
     completely blocked testosterone secretion stimulated by the NOS inhibitor
     NG-nitro-L-arginine Me ester (NAME), whereas the relatively inactive NOS
     substrate, D-arginine, only partially blocked NAME-stimulated testosterone
     secretion. Hydralazine and nicardipine, two vasodilators that do not
     exhibit prominent NO-related effects, also blocked basal testosterone
     secretion and testosterone secretion stimulated by the vasoconstrictor
     NAME. These results suggest that (1) NO suppresses a major regulatory
     aspect of testicular function, testosterone secretion, (2) the stimulatory
     effects of the NOS inhibitor NAME on testosterone secretion are caused by
     NOS inhibition and a decrease in NO prodn., (3) the vasoactive effects of
    NO and NOS inhibitors, rather than direct steroidogenic effects, may
     mediate these effects on testicular function, and (4) arginine-NOS-NO
     pathways may play an important role in male reproductive endocrine
     function and fertility.
     nitric oxide related agent testicular function
ST
ΙT
    Testis
        (function, nitric oxide-related agents effect on)
IT
     Vasodilators
        (nitric oxide-related agents as, testicular function response to)
ΙT
     10102-43-9, Nitric oxide, biological studies
     RL: BIOL (Biological study)
        (agents effect on, testicular function response to)
ΙT
     125978-95-2, Nitric oxide synthase
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (inhibitor, testicular function response to, nitric oxide role in)
IT
     58-22-0, Testosterone 9002-67-9, LH
     RL: BIOL (Biological study)
        (secretion, nitric oxide-related agents effect on)
IT
     74-79-3, L-Arginine, biological studies 87-33-2, Isosorbide dinitrate
     157-06-2, D-Arginine 2577-94-8, L-Arginine methyl ester
     50903-99-6
     RL: BIOL (Biological study)
        (testicular function response to, nitric oxide role in)
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AN
     1998:309186 CAPLUS
DN
     129:79672
ΤI
     Chronic nitric oxide synthesis inhibition does not prevent pregnancy
     vasodilation in the rat
     Ahokas, Robert A., Ph. D.; Lubarsky, Suzanne L., M. D.; Park, Gun-Chae, M.
     D.; Friedman, Steven A., M. D.; Sibai, Baha M., M. D.
CS
     Department of Obstetrics and Gynecology, University of Tennessee, Memphis,
     TN, USA
SO
     Hypertension in Pregnancy (1998), 17(1), 55-68
     CODEN: HYPPEV; ISSN: 1064-1955
PB
     Marcel Dekker, Inc.
DT
     Journal
LA
     English
CC
     13-6 (Mammalian Biochemistry)
     Section cross-reference(s): 1
     The objective is to det. if blockade of endothelium-derived nitric oxide
AΒ
     synthesis from the day after embryo implantation to the day
     before parturition prevents maternal systemic vasodilation in the rat.
     Timed-pregnant and age-matched nonpregnant Wistar-Kyoto rats were
     administered the nonselective nitric oxide
     synthase inhibitor N.omega.-nitro-L-arginine Me ester (15
     mg/rat/day, s.c.) or saline vehicle (untreated) for 14 days using osmotic
     minipumps. On the last day of treatment (day 20 of gestation in the
     pregnant rats), plasma total nitrate/nitrite concn., mean arterial blood
     pressure, and heart rate were measured. Cardiac output and organ blood
     flows were then measured using radioactive-labeled microspheres for the
     calcn. of total systemic and organ/tissue vascular conductances, resp.
     Chronic blockade of nitric oxide synthesis decreased plasma
     nitrate/nitrite concn. >90% and induced hypertension with decreased
     cardiac output and organ blood flows in both nonpregnant and pregnant
     rats. Cardiac output and total vascular conductance were significantly
     increased in the pregnant compared to nonpregnant, untreated normotensive
     rats and in nitric-oxide-blocked hypertensive rats. Vascular conductance
     of the skin, skeletal muscle/skeleton, gastrointestinal tract, heart, and
     uterus were significantly greater in pregnant than in nonpregnant rats of
     both treatment groups. Conclusions: Maternal systemic and uterine
     vasodilation during pregnancy is complex and is caused by some
     mechanism(s) other than increased basal endothelium-derived nitric oxide
     prodn. or by a compensatory increase in some other vasodilatory system
     during nitric oxide synthesis blockade.
ST
     nitric oxide inhibition pregnancy vasodilation relationship
IT
     Blood pressure
     Circulation
     Pregnancy
     Vasodilation
        (pregnancy vasodilation independent of chronic nitric oxide synthesis
        inhibition)
IT
     50903-99-6, N.omega.-Nitro-L-arginine methyl ester
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); BIOL (Biological study)
        (pregnancy vasodilation independent of chronic nitric oxide synthesis
        inhibition)
IT
     125978-95-2, Nitric oxide synthase
     RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
     (Biological study); PROC (Process)
        (pregnancy vasodilation independent of chronic nitric oxide synthesis
        inhibition)
IT
     10102-43-9, Nitric oxide, biological studies
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (pregnancy vasodilation independent of chronic nitric oxide synthesis
        inhibition)
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